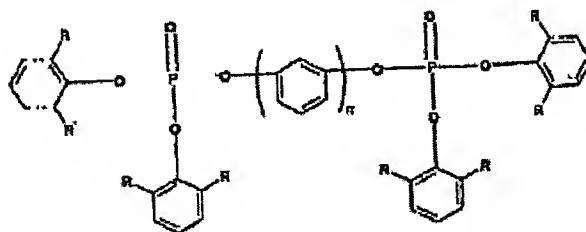


In the Claims

This listing of claims is intended to replace all earlier versions of the claims.

1. A nonaqueous electrolyte for a lithium battery composed of an organic solvent and a lithium salt, comprising 0.1 to 10% by weight of a benzene-substituted phosphate derivative having the following formula (I):



wherein R represents a halogen-substituted C1-C8 alkyl or allyl compound or an unsubstituted C1-C8 alkyl or allyl compound, and n is an integer between 1 and 3.

2. The nonaqueous electrolyte as set forth in claim 1, wherein the solvent of the nonaqueous electrolyte is a mixture of at least one organic solvents selected from the group consisting of ethylene carbonate (EC), propylene carbonate (PC), dimethyl carbonate (DMC), diethyl carbonate ethylmethyl carbonate (EMC) and fluorobenzene (FB).

3. The nonaqueous electrolyte as set forth in claim 1, wherein the lithium salt is at least one selected from the group consisting LiPF_6 , LiBF_4 , LiClO_4 , $\text{LiN}(\text{C}_2\text{F}_5\text{SO}_3)_2$, $\text{LiN}(\text{C}_2\text{F}_5\text{SO}_2)_2$ and $\text{LiN}(\text{CF}_3\text{SO}_2)_2$, and the concentration of the lithium salt in the electrolyte ranges from 0.8 to 2 M.

4. A battery comprising an anode, a cathode and an electrolyte, wherein the electrolyte comprises the nonaqueous electrolyte as set forth in claim 1.